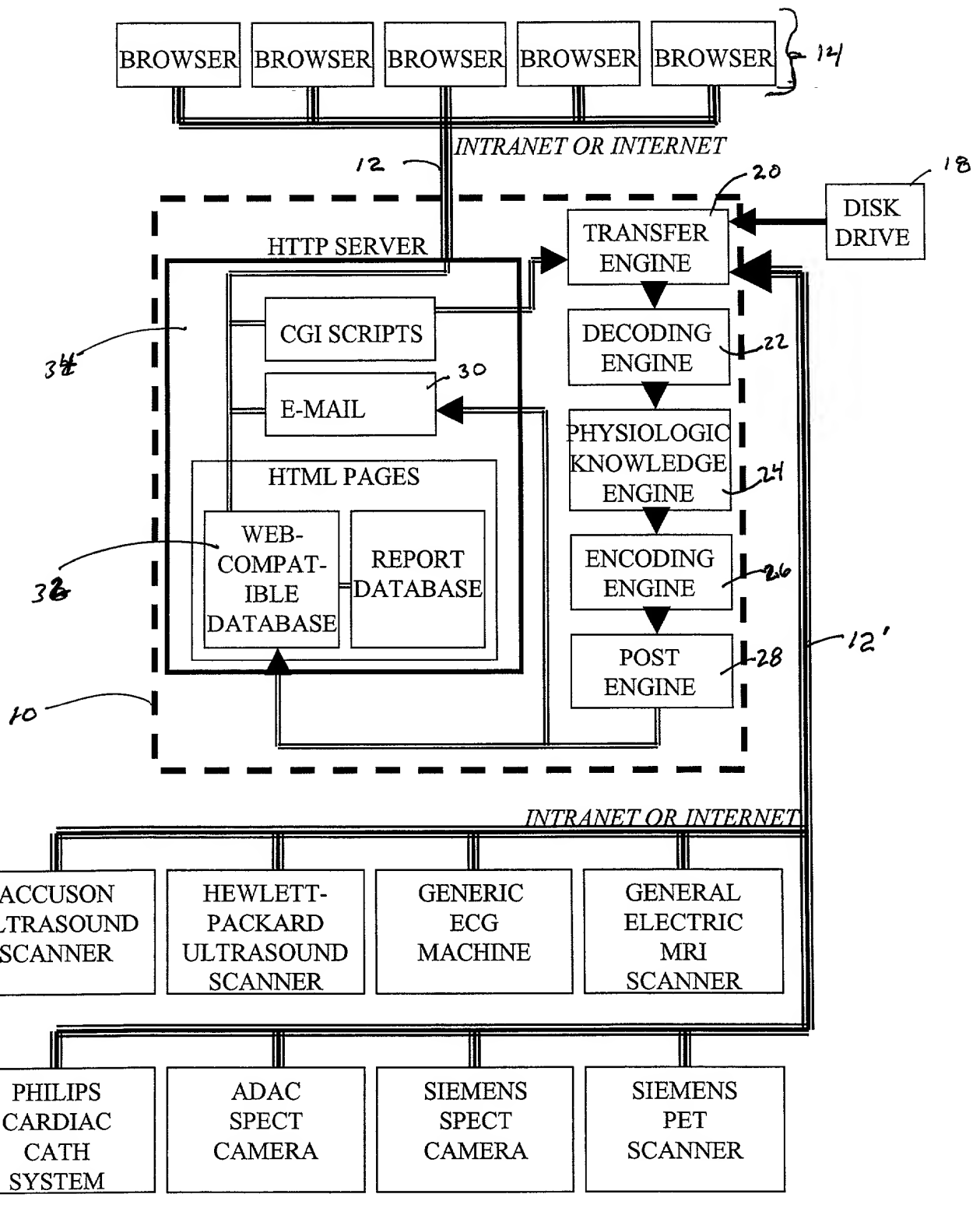


FIGURE 1 - Prior Art



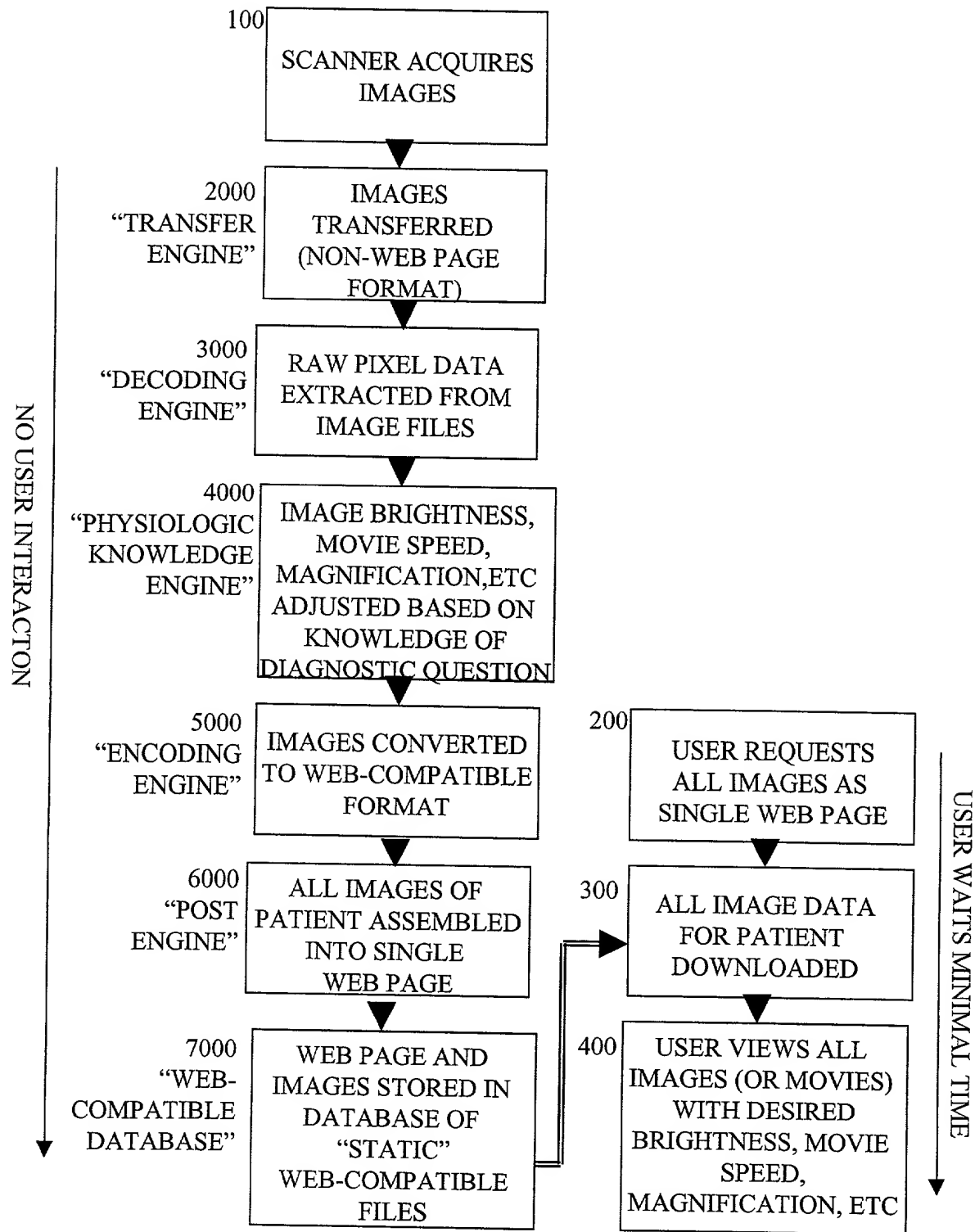
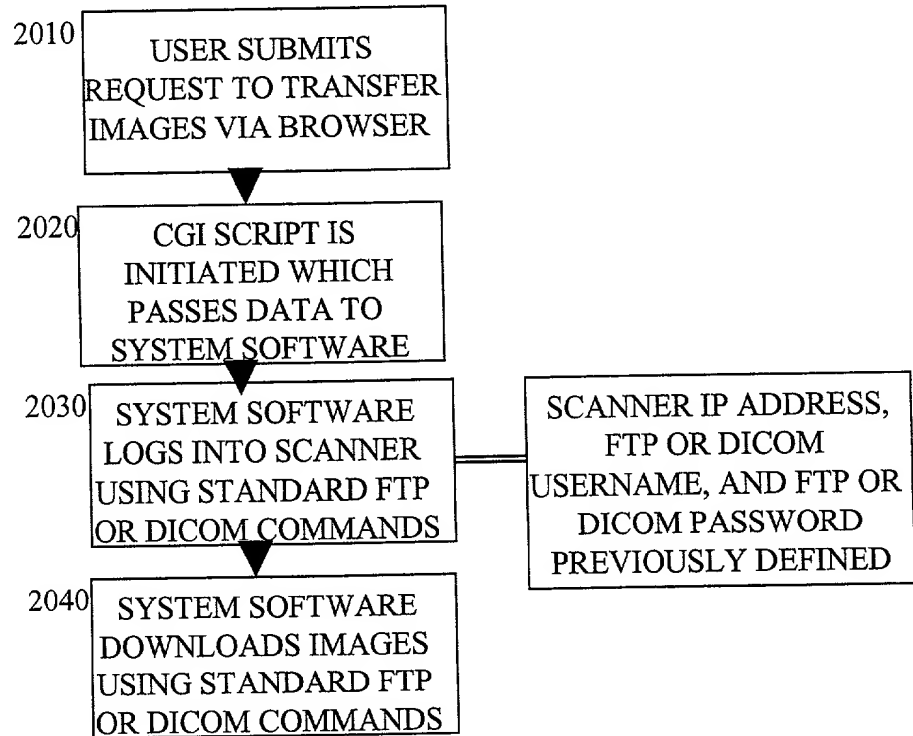


FIGURE 3 - System Overview

000001 54544260

Fig. 4a

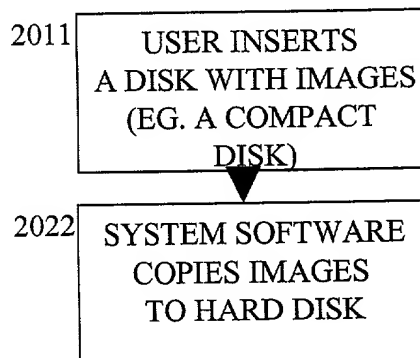
METHOD 1



- OR -

Fig. 4b

METHOD 2



**FIGURE 4 - STEP 2000 DETAILS
("TRANSFER ENGINE")**

Fig. 5a

**METHOD 1
FOR "STANDARD"
IMAGE FORMATS
(EG. DICOM)**

3010

SYSTEM SOFTWARE
READS IMAGE
HEADERS TO DETERMINE
WHERE RAW PIXEL
DATA BEGIN

3020

SYSTEM SOFTWARE
READS IN RAW PIXEL
DATA FOR ALL IMAGES

- OR -

Fig. 5b

**METHOD 2
FOR
"NON-STANDARD"
IMAGE FORMATS**

3011

SYSTEM SOFTWARE
USES A PRIORI KNOWLEDGE
OF IMAGE MATRIX OR
HEADER SIZE TO DETERMINE
WHERE RAW PIXEL
DATA BEGIN

3021

SYSTEM SOFTWARE
READS IN RAW PIXEL
DATA FOR ALL IMAGES

**FIGURE 5 - STEP 3000 DETAILS
("DECODING ENGINE")**

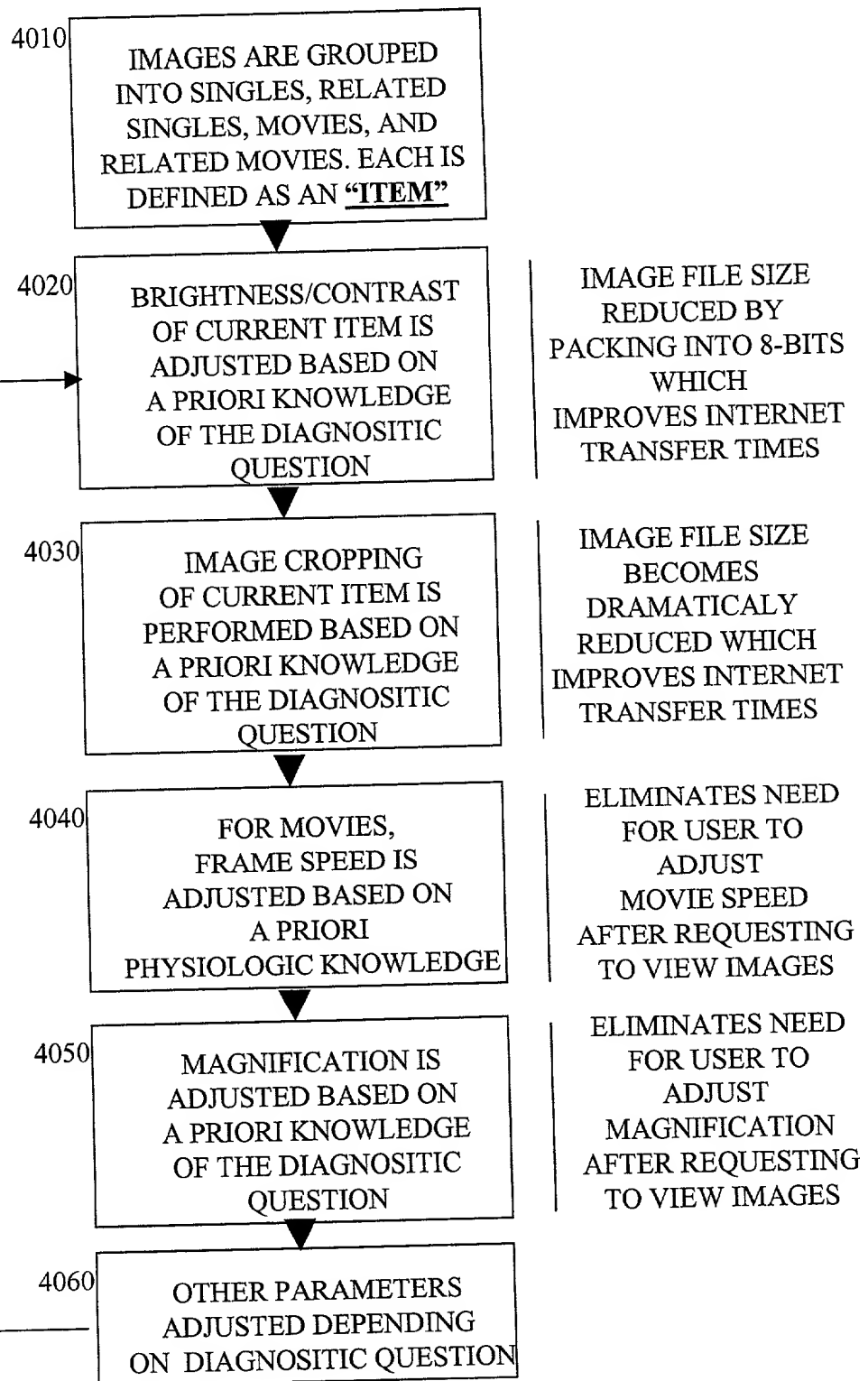


FIGURE 6 - STEP 4000 DETAILS
("PHYSIOLOGIC KNOWLEDGE ENGINE")

STEP 4020 - Define search region as subregion within image which contains the organ of interest (eg. heart) and search all movie frames for the single brightest pixel. Scale all movie frames by same amount to make single brightest pixel equal to 2 to the 8th power minus 1, eg. 255 (1 byte/pixel, 8-bit image).

STEP 4030 - Create thumbnail movies by cropping images such that only the organ of interest is shown (eg. heart).

STEP 4040 - Convert all movie frames into a single movie with frame rate chosen to simulate real time motion (eg. beating heart).

STEP 4050 - Create a full-field-of-view version of each thumbnail so that user can double-click to view additional details.

7a

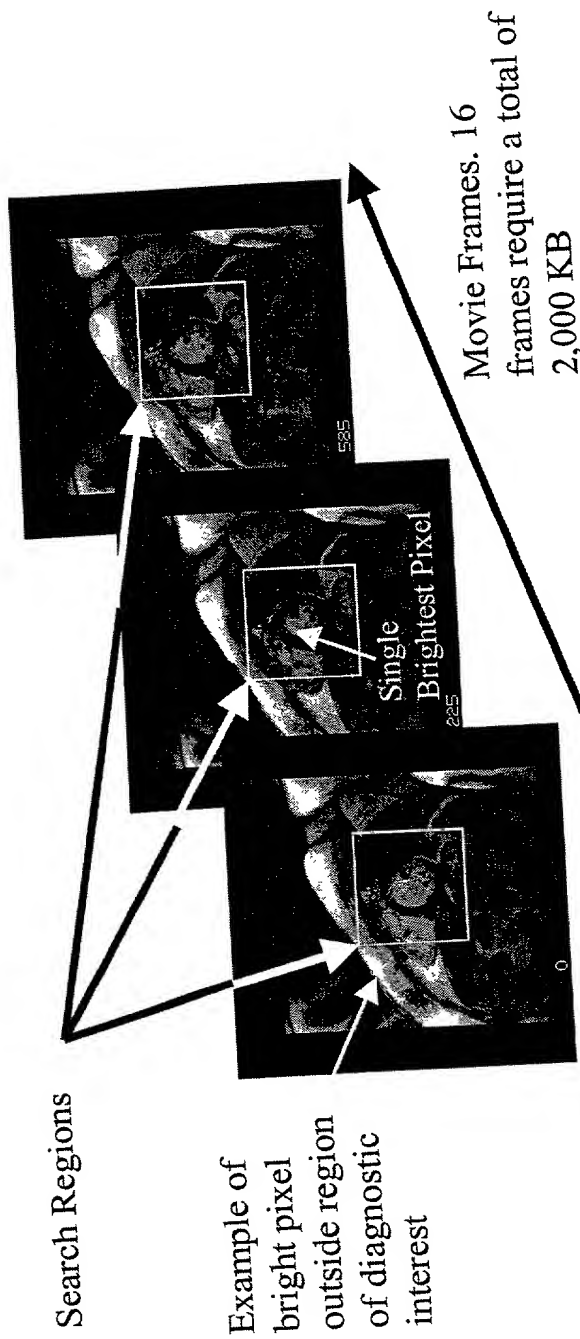


Fig. 7b


```

graph TD
    5010[5010 CURRENT "ITEM"  
(EG. EACH THUMBNAIL AND  
FULL-SCREEN VIEW)  
CONVERTED TO  
WEB-COMPATIBLE  
FORMAT (EG. "GIF")] --> 5020[5020 CURRENT "ITEM"  
WRITTEN TO DISK]
    5020 --> 5010
    REPEAT[REPEAT  
FOR  
EACH  
"ITEM"]
  
```

FIGURE 8 - STEP 5000 DETAILS
("ENCODING ENGINE")

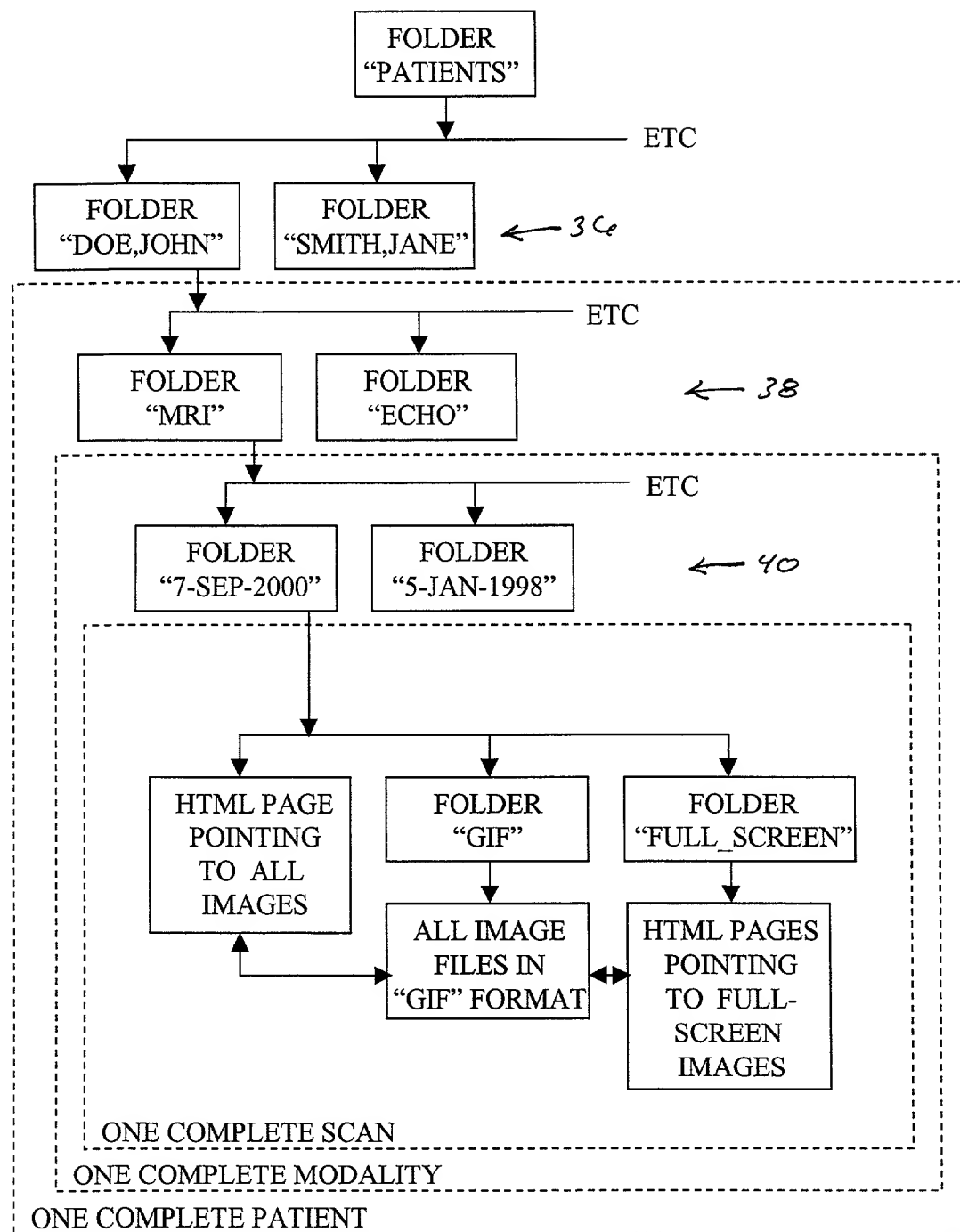


FIGURE 10 - STEP 7000 DETAILS
("WEB-COMPATIBLE DATABASE")

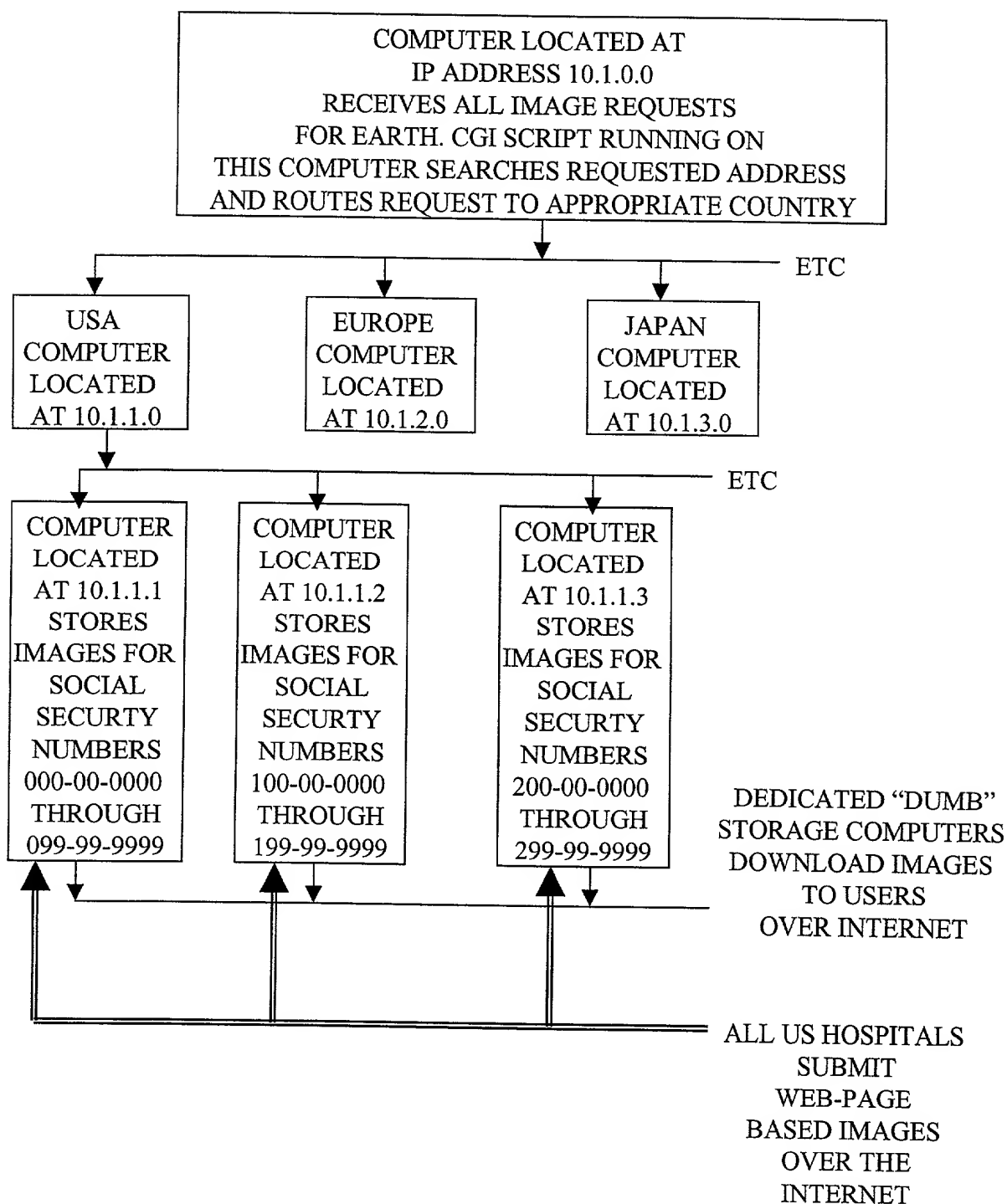


FIGURE 11 - STRUCTURE
OF WORLD-WIDE DATABASE

```

graph TD
    7010[7010 USER REQUESTS TO VIEW IMAGES AT  
"http://www.imagedatabase.com/usa/123456789/mri/23sep2027"]
    7020[7020 COMPUTER LOCATED AT "www.imagedatabase.com"  
(IP ADDRESS 10.1.0.0) SEARCHES FIELD, FINDS "usa",  
AND TELLS USER'S BROWSER TO FORWARD THE  
REQUEST TO COMPUTER LOCATED AT  
IP ADDRESS 10.1.1.0]
    7030[7030 COMPUTER LOCATED AT IP ADDRESS 10.1.1.0  
SEARCHES FIELD, FINDS "123456789",  
AND TELLS USER'S BROWSER TO FORWARD THE  
REQUEST TO COMPUTER LOCATED AT  
IP ADDRESS 10.1.1.2]
    7040[7040 COMPUTER LOCATED AT IP ADDRESS 10.1.1.2  
RETURNS THE REQUESTED IMAGE DATA  
DIRECTLY TO USER]
    7010 --> 7020
    7020 --> 7030
    7030 --> 7040

```

FIGURE 12 - PROCESSING USER REQUEST
USING WORLD WIDE DATABASE

06/24/2000 4:23:00 PM

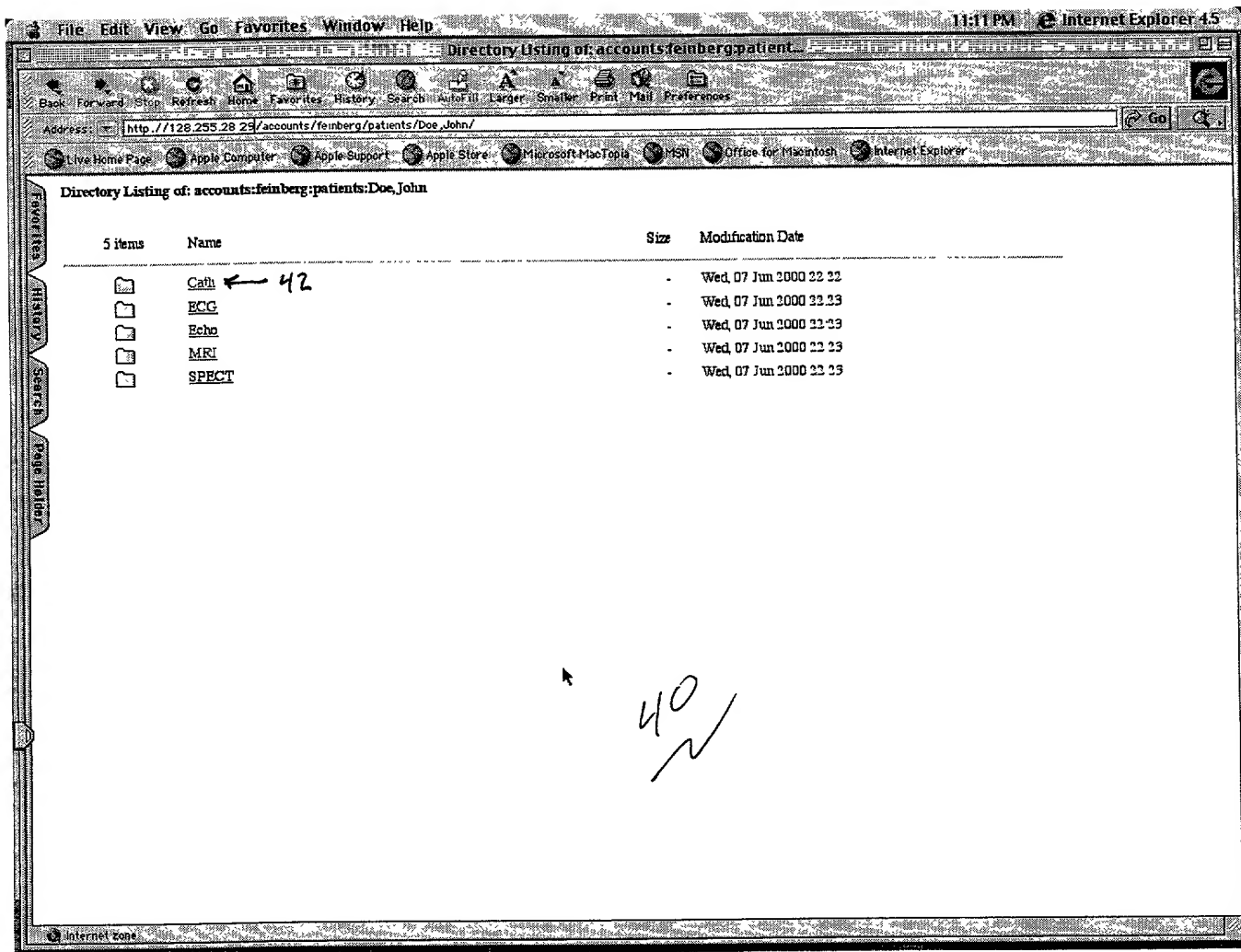


FIGURE 13

09742575 122000

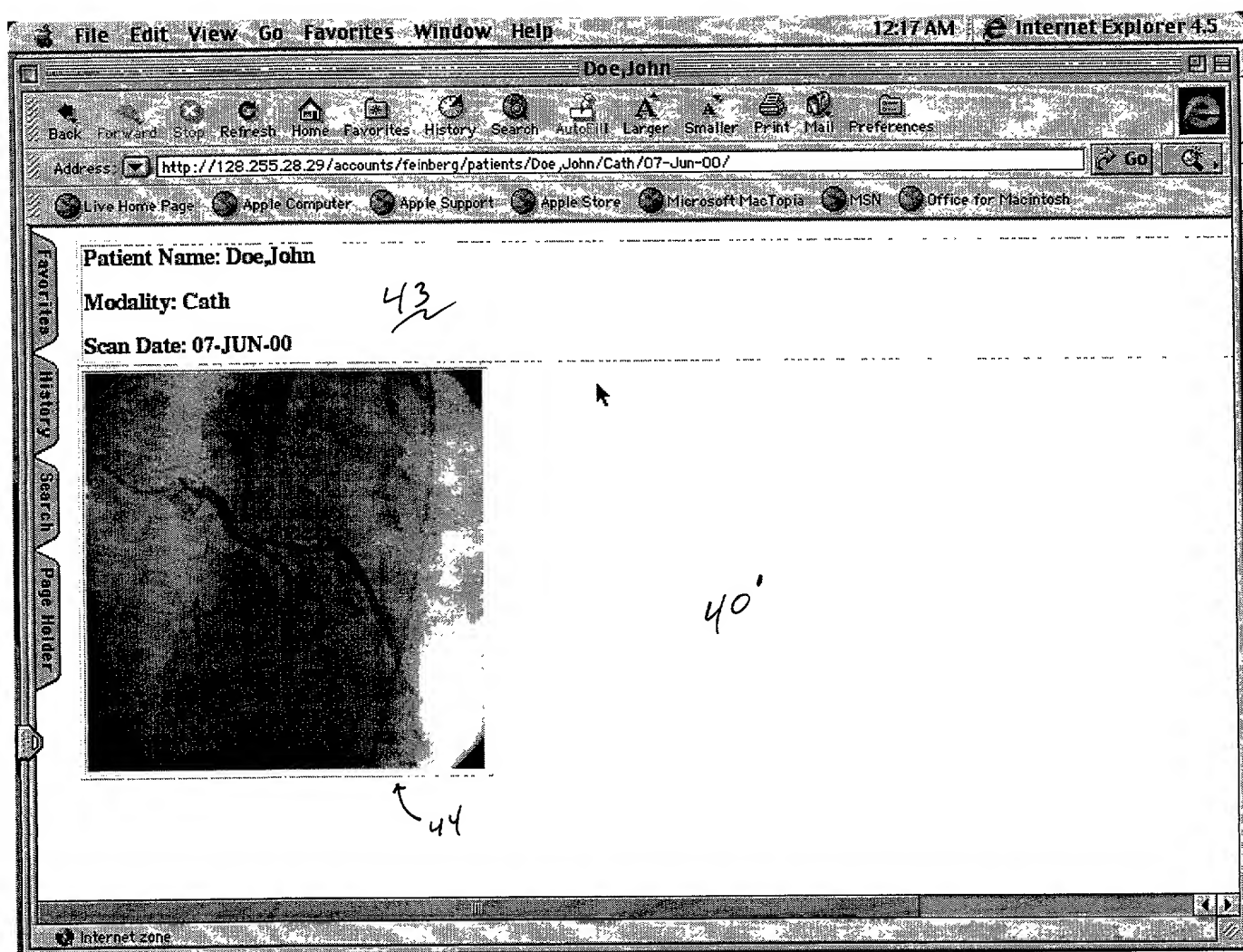


FIGURE 14

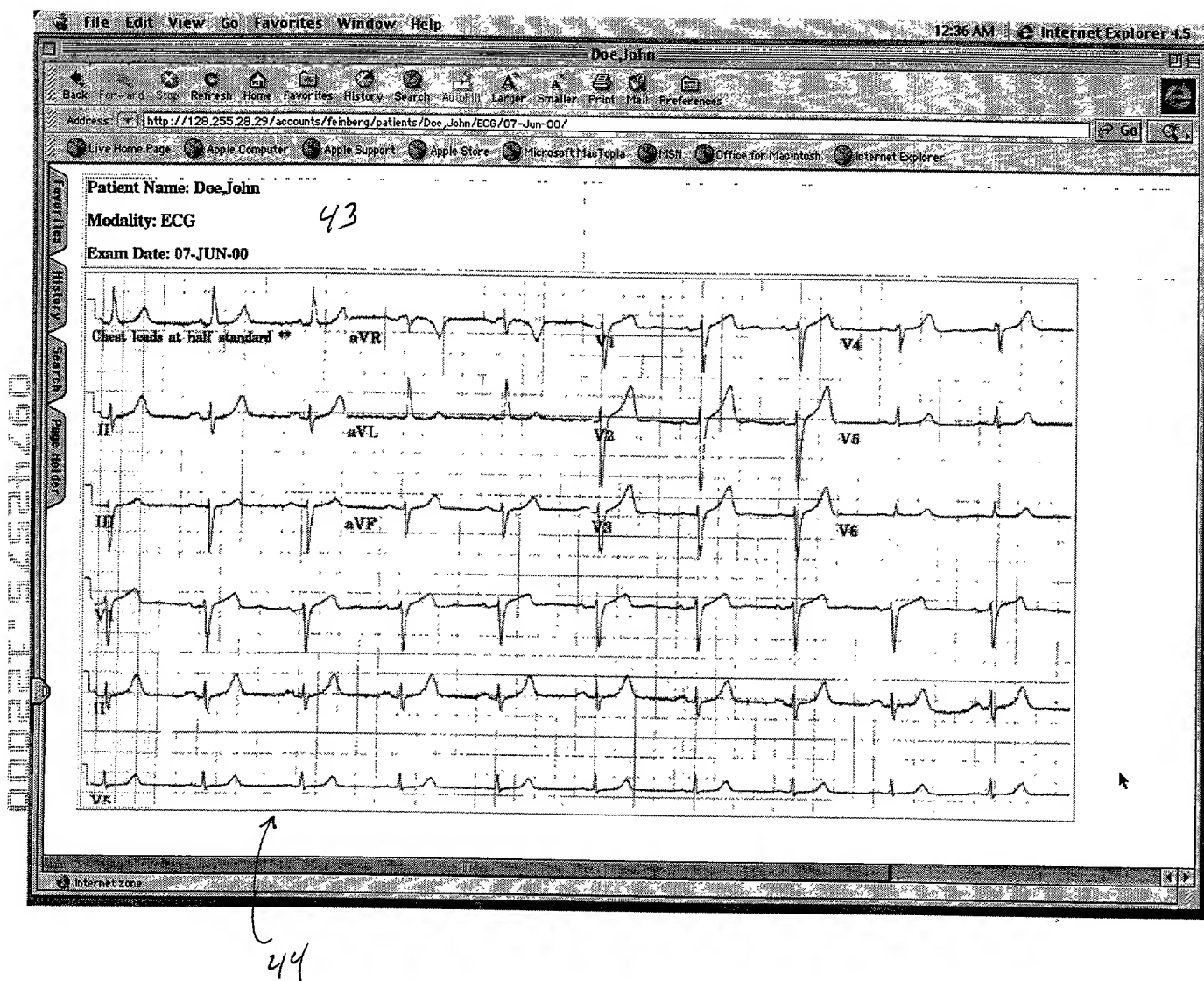


FIGURE 15

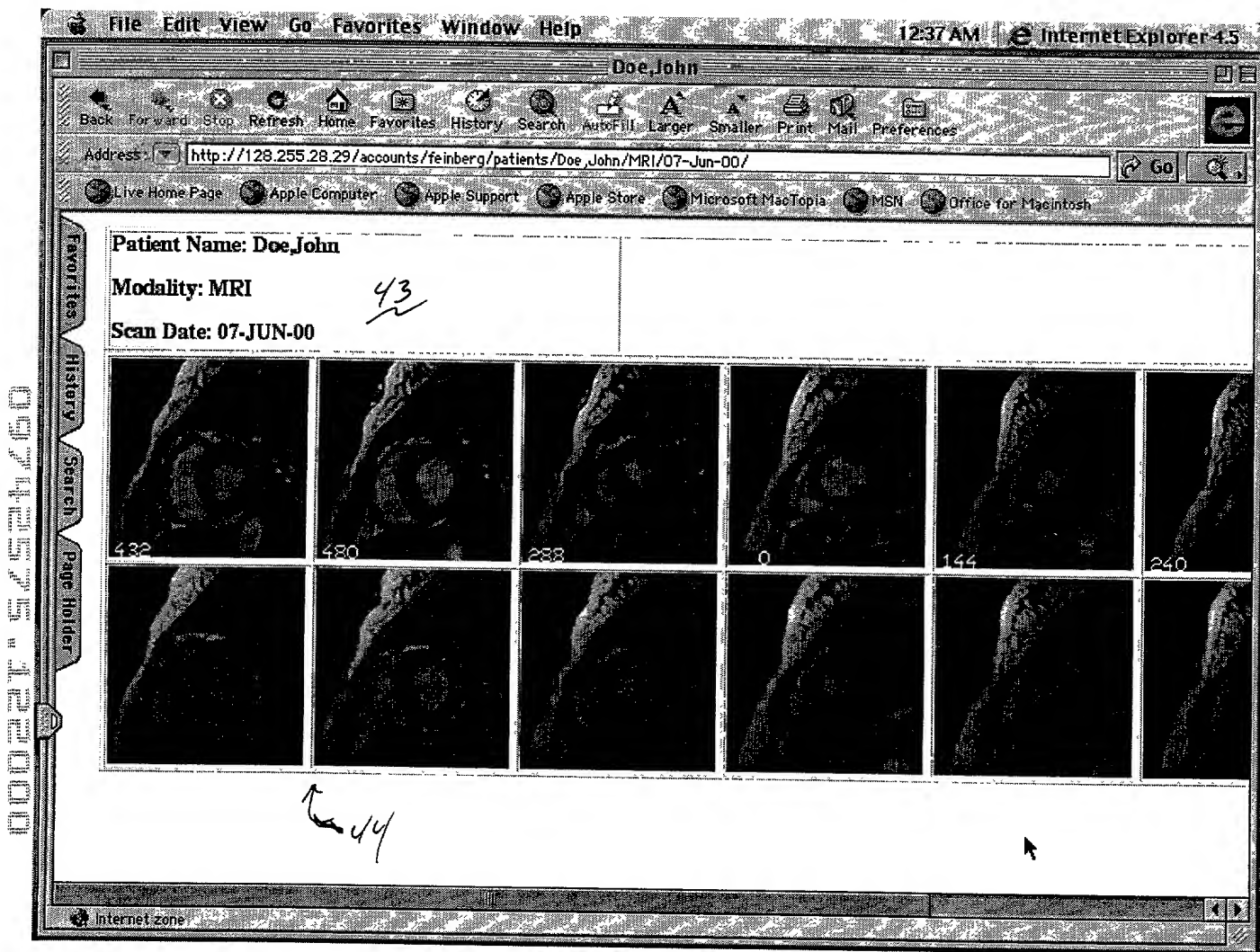


FIGURE 16

09742576 100000

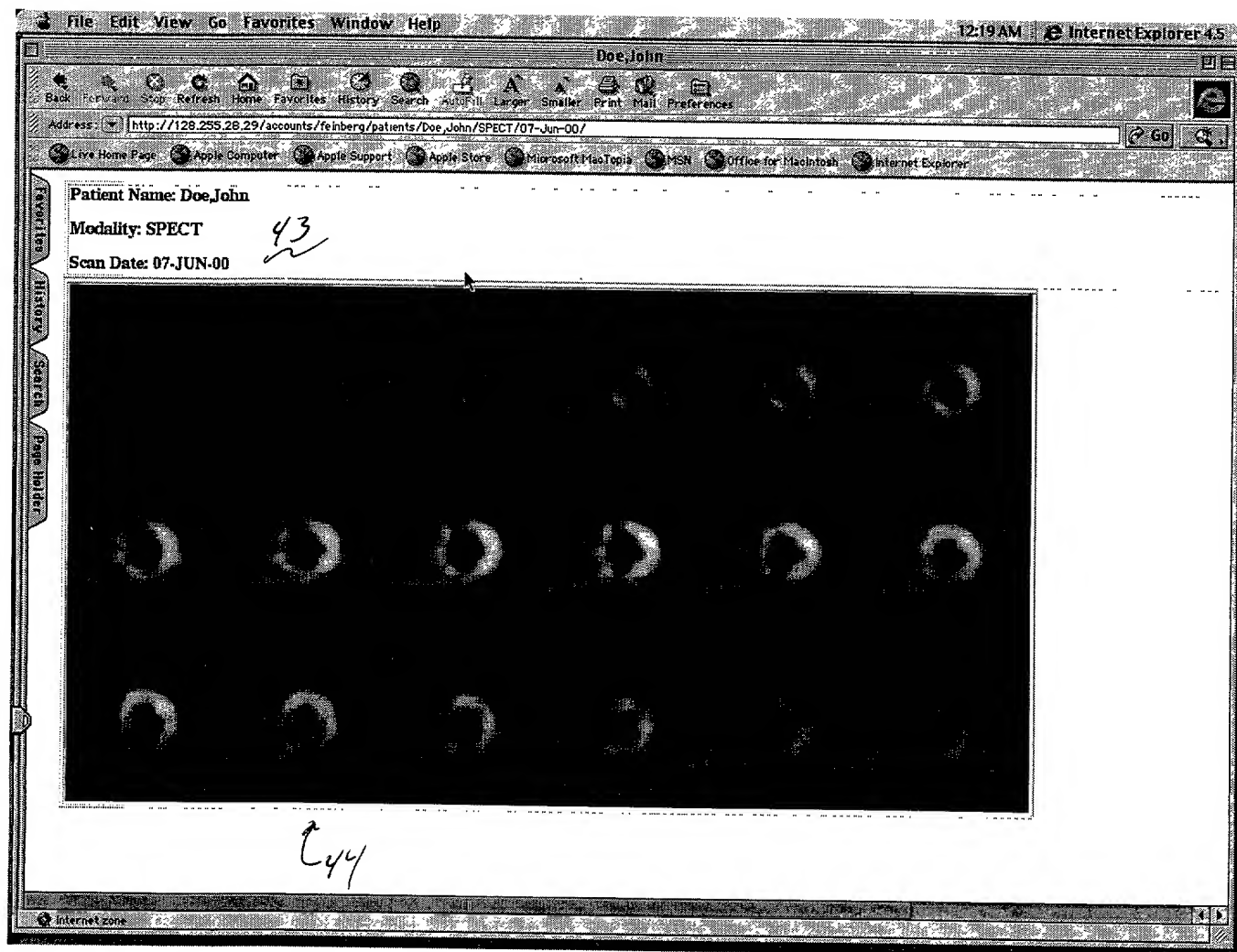


FIGURE 17